

CLAIMS

1. Device for the detection and quantitative measurement of the exposure of an object to a control temperature taking into account the duration of this exposure, formed by a casing comprising:

- 5 - an indication surface (301),
 which is covered at the visible side with a strip (302) of a porous material which is initially opaque and which forms a migration path,
 - a container (303) which contains a measure of migrating material (304) which changes state at a temperature greater than or equal to the
10 control temperature (t_c) and which then propagates by means of capillary action at a predetermined rate in the porous strip (302) in order to render it transparent by means of gradual impregnation in order to allow the indication surface (301) to appear owing to transparency,

in which

- 15 - the migrating material (304) is contained in a container (303) which is initially separate from the porous strip (302), and
 - a pushing member (307) is integrated in the wall of the casing (306) surrounding at least partially the porous strip (302), is located in the region of the container (303), and deforms between
20 * a stable neutral form which does not bring the migrating material (304) and the porous strip (302) into contact, and
 * a stable active form which brings the migrating material and the porous strip into contact, the irreversible deformation of the pushing member between the neutral form and the active form thereof being
25 carried out with force,

characterised in that

- the container (303) is a chamber which contains a measure of migrating material (304) and which is placed in alignment with the initial end of the porous strip (302), and the pushing member is provided with a pointed
30 portion (308) facing the chamber, at right-angles to the chamber and the initial end of the porous strip, and, in the active position, the pushing member penetrates the chamber containing the migrating material in order to allow the migrating material to pass into the porous strip.

- 35 2. Device according to claim 1,
 characterised in that
 the pushing member (107) has a convex neutral form and a concave active form (107a) relative to the outer side of the device.

3. Device according to claim 1,
characterised in that

- the container (403) is a porous material which is soaked with a measure of migrating material, and
- 5 - this container is placed in alignment with the initial end of the porous strip (402), and
- the pushing member (407) is located in alignment with the container and the initial end of the porous strip (402), and
- in the active form thereof, the pushing member presses the container
- 10 (403) against the end of the porous strip (402) in order to allow the migrating material to pass into the porous strip.

4. Device according to claim 1,
characterised in that

15 it is in the form of a label (400) comprising:

- a support layer (401) which is provided with the indication surface,
- a porous strip (402) which covers the indication surface (401),
- an upper layer (406) which covers the porous strip (402) and the support layer (401) and which forms a raised pushing member (407) which
- 20 accommodates a pellet (403) of porous material which is loaded with the measure of migrating material,
- * this pellet (403) being fixed to the base of the container so as not to be in contact with the porous strip (neutral position),
- * this pushing member being able to be deformed in a remanent manner
- 25 in the active position and thus bringing the pellet (403) into contact with the porous strip (402).

5. Device according to claim 1,
characterised in that

- 30 the upper portion covering the porous strip (502) which defines the migration path is provided with a bar code (510) and comprises an aperture (551) in alignment with an interference element which is similar to a line of the bar code provided on the indication surface and which becomes visible when the migrating material has progressed along the
- 35 porous strip as far as the interference element in order to cause it to appear in the aperture (551) following the bar code (510) and constitute therewith a code which can no longer be read as a bar code.